

INTERNATIONAL SEARCH REPORT

International Application No
PCT/EP2005/002689

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 C07K14/21 C12P13/02

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C07K C12P

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, BIOSIS, CHEM ABS Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 789 211 A (YAMADA ET AL) 4 August 1998 (1998-08-04) the whole document	1-28
X	WO 98/37204 A (WISCONSIN ALUMNI RESEARCH FOUNDATION) 27 August 1998 (1998-08-27) the whole document	1-28
X	EP 1 266 962 A (DAICEL CHEMICAL INDUSTRIES, LTD) 18 December 2002 (2002-12-18) the whole document	1-28
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☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents :

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier document but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance: the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

"&" document member of the same patent family

Date of the actual completion of the international search

28 June 2005

Date of mailing of the international search report

13. 10. 2005

Name and mailing address of the ISA

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	BRADY D ET AL: "Characterisation of nitrilase and nitrile hydratase biocatalytic systems." APPLIED MICROBIOLOGY AND BIOTECHNOLOGY. MAR 2004, vol. 64, no. 1, March 2004 (2004-03), pages 76-85, XP002333496 ISSN: 0175-7598 the whole document -----	1-28
Y	NOJIRI M ET AL: "Functional expression of nitrile hydratase in Escherichia coli: requirement of a nitrile hydratase activator and post-translational modification of a ligand cysteine." JOURNAL OF BIOCHEMISTRY. APR 1999, vol. 125, no. 4, April 1999 (1999-04), pages 696-704, XP002333497 ISSN: 0021-924X the whole document -----	1-28
P,X	WO 2004/067738 A (DEGUSSA AG; SYLDATK, CHRISTOPH; BRANDAO, PEDRO; BULL, ALAN, T; VERSECK) 12 August 2004 (2004-08-12) the whole document -----	1-28
P,X	WO 2004/111227 A (DEGUSSA AG; MAY, OLIVER; DRAUZ, KARLHEINZ; BUCHHOLZ, STEFAN) 23 December 2004 (2004-12-23) the whole document -----	1-28

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Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:

2. ☐ Claims Nos.:
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:

3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

See supplemental sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:

4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

1-28 (in part)

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

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The International Searching Authority has determined that this international application contains multiple (groups of) inventions, namely

1. Claims 1-28 (in part)

polypeptides or polynucleotides that are coded by Seq. Id. No. 1, 2 and 3, and methods of using them.

2. Claims 1-28 (in part)

polypeptides or polynucleotides that are coded by Seq. Id. No. 6, 7 and 8, and methods of using them.

3. Claims 1-28 (in part)

polypeptides or polynucleotides that are coded by Seq. Id. No. 4 and 5, and methods of using them.

4. Claims 1-28 (in part)

polypeptides or polynucleotides that are coded by Seq. Id. No. 9 and 10, and methods of using them.

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Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 5789211	A	04-08-1998	NONE	
WO 9837204	A	27-08-1998	AU 6331998 A CA 2281001 A1 EP 0972049 A1 US 6303352 B1 US 6087140 A	09-09-1998 27-08-1998 19-01-2000 16-10-2001 11-07-2000
EP 1266962	A	18-12-2002	JP 2002369697 A US 2003124691 A1	24-12-2002 03-07-2003
WO 2004067738	A	12-08-2004	NONE	
WO 2004111227	A	23-12-2004	NONE	